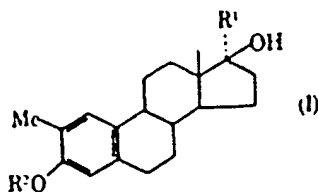


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**17 $\alpha$ -Substituted 2-methylestradiol derivatives.** Dainippon Pharmaceutical Co., Ltd. (by Hidehiko Kaneko, Akio Kobayashi, and Katsuo Kawase). Japan. 100('66), Jan. 7, Appl. Nov. 14, 1962; 2 pp. 2-Methylestrone or its 3-alkyl ether is treated with an organometallic compd. and the product hydrolyzed to give I, useful as an anabolic steroid and cholesterol-level de-



pressor. Thus, a soln. of 1 g. 2-methylestrone in Et<sub>2</sub>O is dropped into a Grignard reagent prepd. from 0.4 g. Mg, 2.4 g. MeI, and 50 cc. Et<sub>2</sub>O, the whole refluxed 5 hrs., poured into H<sub>2</sub>O, made strongly alk., and extd. with Et<sub>2</sub>O to give 0.73 g. I (R<sup>1</sup> = Me, R<sup>2</sup> = H), m. 201-3° (MeOH). Similarly prepd. are the following I (R<sup>1</sup>, R<sup>2</sup>, and m.p. given): Me, Me, 142-3°; ethynyl, Me, 124-6°; Et, Me, 131-2°.

Hiroshi Kataoka